

SOLID STATE 100W FM TRANSMITTER EM 100 DIG PLUS

The **EM 100 DIG PLUS** is a 100W FM transmitter made up with the most modern available technology so as to provide the maximum performance at minimal cost, while fully meeting the technical regulations. Flexibility, quality, compactness, and low electrical consumption make the **EM 100 DIG PLUS** one of the best offered on the market today. This transmitter can be supplied with the following options:

- Stereo generator
- RDS
- Web server/SNMP telemetry
- AES/EBU digital audio input



MAIN ADVANTAGES

- Super-compact size and reduced weight.
- Low performance costs.
- Robust modular construction.
- Easy to use and to configure. The transceiver uses a control interface, which is equipped with a large LCD screen, a multifunction knob, and few buttons.
- Nominal RF output power over the full FM range particularly stable against time.
- Power section entirely modular and highly reliable.
- RF output stage with reverse intermodulation figure lower than the standard bipolar construction.
- Low level of dissipation.
- Stable, reliable power supply.
- Easy diagnosis and easy-to-read parameters.
- Compliance with the strictest regulations.

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GENERAL CHARACTERISTICS

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| FREQUENCY RANGE | 87.5-108MHz |
| FM MODULATION | 75KHz (adjustable) peak deviation. Mono 180kF3E and Stereo 256kF3E |
| AUDIO/MPX INPUT LEVEL | -3.5 to +12.5dBm @ 75KHz deviation |
| AUDIO INPUT CONNECTORS | XLR(F) |
| AES/EBU DIGITAL INPUT CONNECTOR (OPTIONAL) | XLR(F), 110Ω balanced |
| SEPARATION BETWEEN CHANNELS (OPTIONAL STEREO GENERATOR) | 60dB |
| AUX. CHANNEL INPUT LEVEL (RDS/SCA) | 7.5KHz deviation: -12.5 to 3.5dBm 2KHz deviation: -24 to -8dBm |
| AUX. CHANNEL INPUT IMPEDANCE | 10KOhm |
| MODULATION DISTORTION | 7.5KHz deviation: <0.05%, 0.02% typical 2KHz deviation: <0.2%, 0.05% typical |
| MONO S/N RATIO | 30 to 20000Hz: >76dB, 86dB typical CCIR: >75dB, 81dB typical |
| STEREO S/N RATIO | 30 to 20000Hz: >72dB, 77dB typical CCIR: >68dB, 72dB typical |
| AUDIO CHANNELS BANDWIDTH | 30 to 15000Hz ±0.1dB |
| PRE-EMPHASIS TIME CONSTANT | Selectable, 25/50/75 microseconds |
| NOMINAL RF OUTPUT POWER | 100W |
| TRANSMITTER TUNING STEPS | 10/100KHz |
| OUTPUT POWER ALC STABILITY | ±3% |
| HARMONICS AND SPURIOUS EMISSIONS | <80dBc |
| RF OUTPUT IMPEDANCE | 50Ω |
| RF OUTPUT CONNECTOR | N type |
| RF SAMPLER CONNECTOR | BNC type |
| POWER SUPPLY | Single phase 110-230Vac ±15% 50/60Hz |
| CONSUMPTION | 141VA (100W) |
| OPERATING TEMPERATURE RANGE | 0 to 40°C recommended, -10 to +55°C max. |
| RELATIVE HUMIDITY | Up to 95% not condensed |
| WEIGHT | 7.5Kg |

** The images and/or technical specifications are subject to change without previous notice.*

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